

Math 270 Rubric

Outcome 1: Students will be able to prove mathematical statement based on linear algebra concepts.

DESCRIPTION	ACCEPTABLE	STRUGGLING	UNACCEPTABLE
POINTS	2	1	0
Understand the statement of the theorem	The hypothesis and the conclusion are clearly stated	Correct hypothesis and incorrect conclusion, or incorrect hypothesis and correct conclusion	The absence of, or incorrect hypothesis and conclusion
State logical arguments	Clear and concise discernible argument from the hypothesis to the conclusion	Some discernible path from the hypothesis to the conclusion, with missing or unnecessary steps	No interpretable attempt made at building an argument
Justify each step in the proof	Each step in the proof is justified using the correct definition, theorem, or corollary	Some steps in the proof are justified using the correct definition, theorem, or corollary	The absence of any justification of any step in the proof

Sample Problem: **Restate the following as an “If...then” statement, then prove the statement.**

A one-to-one linear transformation $L : V \rightarrow W$ maps a linearly independent subset S of V into a linearly independent subset T of W .